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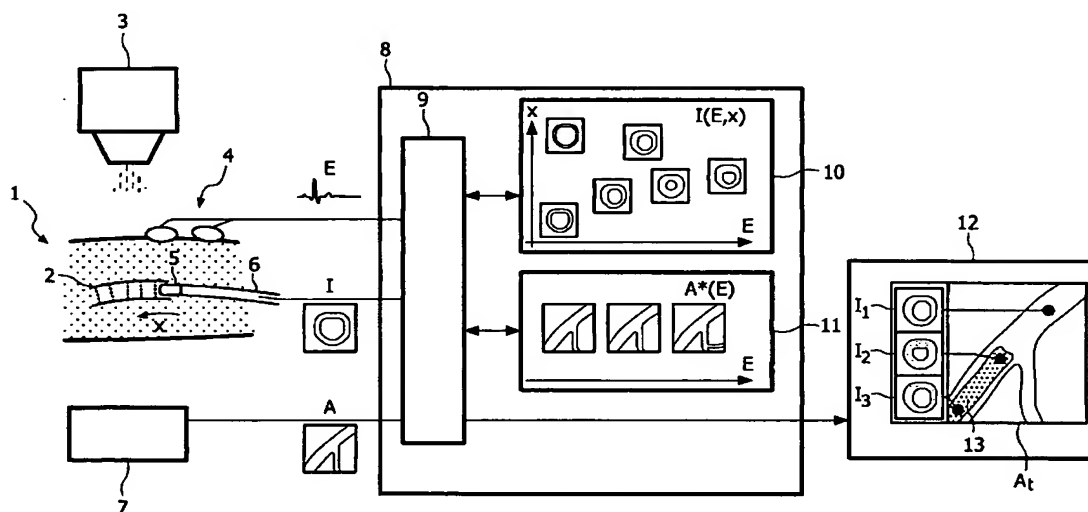
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(54) Title: **DEVICE AND METHOD FOR DISPLAYING ULTRASOUND IMAGES OF A VESSEL**



(57) Abstract: The invention relates to a device and a method for displaying a vessel (2) with the aid of intravascular ultrasound images (I). A sequence of intravascular ultrasound images ( $I(E,x)$ ) is generated by means of a probe (5) and stored in a memory (10) in a manner indexed by the associated location (x) where they were generated and also the associated heartbeat phase (E) and/or breathing phase. During a subsequent medical intervention, those ultrasound images ( $I_1, I_2, I_3$ ) which best correspond to the heartbeat phase of a current fluoroscopic image ( $A_t$ ) or belong to the current stopping location of a catheter (13) can be selected from the memory (10) and displayed on a monitor (12).



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